BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF WORK

Asphaltingto main road and cross roads in Abbigere, Sapthagiri Layout and Surrounding areas in Ward no 12, Shettyhalli Sub Division in Dasarahalli Zone

ESTIMATED COST

Rs:- **100.00** **Lakhs**

JOB CODE :- 012-22-000011

OFFICE OF THE
EXECUTIVE ENGINEER
DASARAHALLI DIVISION
BBMP, BENGALURU

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Modified Estimation

Sl No	Description	Unit	No	Length	Width	Depth	Qty	Rate	Amount
1	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 (PWD SR 2018-19 P.No: 143, I.No.: 19.55)								
	LHS Kala nagar Man road								
	7th Cross		1	90.00	4.00		360.00		
	8th Cross		1	95.00	4.50		427.50		
	11th Cross		1	350.00	4.50		1575.00		
	12th Cross		1	90.00	4.50		405.00		
	13th Cross		1	105.00	5.50		577.50		
	Cross road-1-		1	110.00	4.50		495.00		
	Cross road-2-		1	139.35	4.50		627.08		
		Sqm					**4467.08**	102.00	**455642.00**
2	KSRRB 300-2. Earthwork excavation by manual means in Ordenary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (PWD SR 2018-19 P.No: 143, I.No.: 19.1)								
	For Desilting								
	Lhs 6th Cross		1	35.00	0.45	0.40	6.30		
	7th Cross		1	90.00	0.45	0.40	16.20		
	8th Cross		1	95.00	0.45	0.40	17.10		
	11th Cross		1	350.00	0.60	0.35	73.50		
	12th Cross		1	90.00	0.45	0.30	12.15		
	13th Cross		1	105.00	0.45	0.35	16.30		
	Sri Shakti Bhavan		2	40.00	0.45	0.35	12.42		
	Road work (New)								
	RHS 13th Cross		1	40.00	4.20	0.30	50.40		
	Near RO Plant		1	100.00	4.25	0.30	127.50		
	Sri Shakti Bhavan		1	45.00	4.50	0.30	60.75		
	Cross road-1-		1	110.00	4.50	0.30	148.50		
	Cross road-2-		1	139.35	4.50	0.30	188.12		
		Cum					**729.24**	220.00	**160434.00**
3	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (PWD,SZB,SR,2018-19. Pg No-140, I. No-18.47)								
	Kala Nagara RHS								
	14th Cross		1	35.00	4.25	0.30	44.63		
	15th Cross		1	50.00	4.25	0.30	63.75		

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	16th Cross		1	46.00	4.25	0.30	58.65		
	Lhs 6th Cross		1	35.00	4.25	0.30	44.63		
		Cum					**211.65**	1200.00	**253980.00**
4	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH -100/ Chapter 1 (PW,P& IWTD SR 2018-19, Pg No 16, Item No. 17.1 & 17								
	Qty vide item no 2	Cum	1	729.24			729.24		
	Qty vide item no 3			211.65			211.65		
	Qty vide item no 1		1	4467.08		0.080	357.37		
	Basic Rate	57.00					**1298.26**	100.00	**129826.00**
	Lead For 5Km(2x1.28x5)	12.80							
		69.80							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge (Data Rate)								
	Missing & Damage Slabs For Drain		200	0.60	0.90		108.00		
		Sqm					**108.00**	2337.00	**252396.00**
	Data Rate	2337.00							
6	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge (Data Rate)								
	Cover Slabs For Culvert		20	0.60	1.20		14.40		
		Sqm					**14.40**	5418.00	**78020.00**
	Data Rate	5418.00							
7	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (PWD SR 2018-19 P.No: 147, I.No.: 19.64)								
	Kala Nagara RHS	Sqm							
	RHS 13th Cross		1	40.00	4.20		168.00		
	14th Cross		1	35.00	4.25		148.75		
	15th Cross		1	50.00	4.25		212.50		
	16th Cross		1	46.00	4.25		195.50		
	LHS Kala nagar Man road								
	Lhs 6th Cross		1	35.00	4.25		148.75		
	7th Cross		1	90.00	4.00		360.00		
	8th Cross		1	95.00	4.50		427.50		
	11th Cross		1	350.00	4.50		1575.00		
	12th Cross		1	90.00	4.50		405.00		
	13th Cross		1	105.00	5.50		577.50		
	Near RO Plant		1	100.00	4.25		425.00		
	Sri Shakti Bhavan		1	45.00	4.50		202.50		
	Cross road-1-		1	110.00	4.50		495.00		
	Cross road-2-		1	139.35	4.50		627.08		
							5968.08	6.00	**35808.00**

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8	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (PWD SR 2018-19 P.No: 155, I.No.: 20.18)								
	RHS 13th Cross	Cum	1	40.00	4.20	0.20	33.60		
	Near RO Plant		1	100.00	4.25	0.20	85.00		
	Sri Shakti Bhavan		1	45.00	4.50	0.20	40.50		
	Cross road-1-		1	110.00	4.50	0.20	99.00		
	Cross road-2-		1	139.35	4.50	0.20	125.42		
							383.52	2200.00	**843733.00**
9	KSRB 4-1.2 : Providing and laying in position plain cement concrete of M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.565cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PW,P& IWTD SR 2018-19,Page No-222 Item No-27.18)								
	Near RO Plant		1	100.00	4.25	0.15	63.75		
	Sri Shakti Bhavan		1	45.00	4.50	0.15	30.37		
		Cum					**94.12**	6000.00	**564726.00**
10	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)(PW,P& IWTD SR 2018-19, Pg No 176, Item No. 22.6.1)								
	Near RO Plant		1	100.00	4.25	0.15	63.75		
	Sri Shakti Bhavan		1	45.00	4.50	0.15	30.37		
		Cum				**Total Qty**	**94.12**	6500.00	**611787.00**
11	KSRRB M500- 4 Providing and applying **primer coat** for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications.. MORTH Chapter 501 of MORTH V revision (PWD SR 2018-19 P.No: 158, I.No.: 21.5)								
	LHS Kala nagar Man road	Sqm							
	RHS 13th Cross		1	40.00	4.20		168.00		
	14th Cross		1	35.00	4.25		148.75		
	15th Cross		1	50.00	4.25		212.50		

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	16th Cross		1	46.00	4.25		195.50		
	LHS Kala nagar Man road								
	Lhs 6th Cross		1	35.00	4.25		148.75		
	7th Cross		1	90.00	4.00		360.00		
	8th Cross		1	95.00	4.50		427.50		
	11th Cross		1	350.00	4.50		1575.00		
	12th Cross		1	90.00	4.50		405.00		
	13th Cross		1	105.00	5.50		577.50		
	Cross road-1-		1	110.00	4.50		495.00		
	Cross road-2-		1	139.35	4.50		627.08		
							5340.58	33.00	**176239.00**
12	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 100/120 TPH capacity H.M.P. with sensor paver Gr-1 (50 mm to 75mm) with 3.3 % VG-30 Bitumen (PWD SR 2018-19 P.No: 159, I.No.: 21.11.2)								
	LHS Kala nagar Man road	Cum							
	RHS 13th Cross		1	40.00	4.20	0.05	8.40		
	14th Cross		1	35.00	4.25	0.05	7.44		
	15th Cross		1	50.00	4.25	0.05	10.63		
	16th Cross		1	46.00	4.25	0.05	9.78		
	LHS Kala nagar Man road								
	Lhs 6th Cross		1	35.00	4.25	0.05	7.44		
	7th Cross		1	90.00	4.00	0.05	18.00		
	8th Cross		1	95.00	4.50	0.05	21.38		
	11th Cross		1	350.00	4.50	0.05	78.75		
	12th Cross		1	90.00	4.50	0.05	20.25		
	13th Cross		1	105.00	5.50	0.05	28.88		
	Cross road-1-		1	110.00	4.50	0.05	24.75		
	Cross road-2-		1	139.35	4.50	0.05	31.35		
							267.03	8750.00	**2336502.00**
13	KSRRB M500- 4 Providing and applying **primer coat** for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications.. MORTH Chapter 501 of MORTH V revision (PWD SR 2018-19 P.No: 158, I.No.: 21.5)								
	LHS Kala nagar Man road	Sqm							
	RHS 13th Cross		1	40.00	4.20		168.00		
	14th Cross		1	35.00	4.25		148.75		
	15th Cross		1	50.00	4.25		212.50		
	16th Cross		1	46.00	4.25		195.50		
	LHS Kala nagar Man road								
	Lhs 6th Cross		1	35.00	4.25		148.75		
	7th Cross		1	90.00	4.00		360.00		
	8th Cross		1	95.00	4.50		427.50		
	11th Cross		1	350.00	4.50		1575.00		
	12th Cross		1	90.00	4.50		405.00		
	13th Cross		1	105.00	5.50		577.50		
	Cross road-1-		1	110.00	4.50		495.00		

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	Cross road-2-		1	139.35	4.50		627.08		
							5340.58	12.00	**64087.00**
14	KSRRB M500-19. Providing and laying **bituminous concrete**, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification clause No. 500.7 of MORTH Vrevision using 120 TPH capacity Asphalt batch mix plant with sensor paver Gr -II (30 mm to 40 mm) with 5.4 % VG-30 Bitumen (PWD SR 2018-19 P.No: 162, I.No.: 21.22.2)								
	LHS Kala nagar Man road	Cum							
	RHS 13th Cross		1	40.00	4.20	0.030	5.04		
	14th Cross		1	35.00	4.25	0.030	4.46		
	15th Cross		1	50.00	4.25	0.030	6.38		
	16th Cross		1	46.00	4.25	0.030	5.87		
	LHS Kala nagar Man road								
	Lhs 6th Cross		1	35.00	4.25	0.030	4.46		
	7th Cross		1	90.00	4.00	0.030	10.80		
	8th Cross		1	95.00	4.50	0.030	12.83		
	11th Cross		1	350.00	4.50	0.030	47.25		
	12th Cross		1	90.00	4.50	0.030	12.15		
	13th Cross		1	105.00	5.50	0.030	17.33		
	Cross road-1-		1	110.00	4.50	0.030	14.85		
	Cross road-2-		1	139.35	4.50	0.030	18.81		
							160.22	9972.00	**1597686.00**
15	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (PWD SR 2018-19 P.No: 182, I.No.: 24.5)								
	LHS Kala nagar Man road								
	RHS 13th Cross	2	1	40.00	0.10		8.00		
	14th Cross	2	1	35.00	0.10		7.00		
	15th Cross	2	1	50.00	0.10		10.00		
	16th Cross	2	1	46.00	0.10		9.20		
	LHS Kala nagar Man road								
	Lhs 6th Cross	2	1	35.00	0.10		7.00		
	7th Cross	2	1	90.00	0.10		18.00		
	8th Cross	2	1	95.00	0.10		19.00		
	11th Cross	2	1	350.00	0.10		70.00		
	12th Cross	2	1	90.00	0.10		18.00		
	13th Cross	2	1	105.00	0.10		21.00		
	Cross road-1-	2	1	110.00	0.10		22.00		
	Cross road-2-	2	1	139.35	0.10		27.87		
		Sqm					**237.07**	454.00	**107630.00**

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COMPOUND WALL

16	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. (PWD SR 2018-19 P.No: 6, I.No.: 2.4)								
	NEAR RO PLANT	Cum	1	98.00	0.90	0.90	79.38		
							79.38	439.00	**34848.00**
17	KSRB 4-1.2 : Providing and laying in position plain cement concrete of M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.565cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PW,P& IWTD SR 2018-19,Page No-222 Item No-27.18)								
	NEAR RO PLANT	Cum	1	98.00	0.90	0.15	13.23		
							13.23	5906.00	**78136.00**
18	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD SR 2018-19 P.No: 25, I.No.: 5.6)								
	Footing - 1								
	NEAR RO PLANT	Cum	1	98.00	0.75	0.30	22.05		
	Footing - 2								
	NEAR RO PLANT	Cum	1	98.00	0.60	0.45	26.46		
							48.51	4872.00	**236341.00**
19	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (PWD SR 2018-19 P.No: 25, I.No.: 5.9)								
	NEAR RO PLANT	Cum	1	98.00	0.45	0.45	19.85		
							19.85	5812.00	**115339.00**
20	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PWD SR 2018-19 P.No: 13, I.No.: 4.5)								
	Coping on Basment	Cum	1	98.00	0.45	0.13	5.51		
							5.51	6307.00	**34767.00**

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21	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(PWD SR 2018-19 P.No: 115, I.No.: 15.1)								
			2	98.00			0.45	88.20	
		Sqm						88.20	149.00	13142.00
22	KSRB 5-14.1 : Providing and constructing load bearing wall with 400x150x200mm solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 (PWD SR 2018-19 P.No: 27, I.No.: 5.26.2) Size 400X150X200								
	NEAR RO PLANT	Sqm	1	98.00			1.50	147.00		
	Pillers For Every 3mts		33	0.15			1.50	7.43		
								154.43	1200.00	185316.00
23	KSRB15-3.5 : Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (PWD SR 2018-19 P.No: 115, I.No.: 15.13)								
	NEAR RO PLANT	Sqm	2	98.00			1.50	294.00		
	Pillers For Every 3mts		65	0.15			1.50	14.85		
		Rmt						308.85	234.00	72271.00
24	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(PW,P& IWTD SR 2018-19, Pg No 119, Item No. 15.49.1)								
	As per Plastering Qty	Sqm	Qty Vide Item No.					308.85		
								308.85	116.00	35827.00
								SUB TOTAL		8474483.00
								GST 18%		1525406.94
								Micelleneous and rounding off		110.06
								TOTAL		10000000.00

Assistant Engineer
Ward 12

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Executive Engineer
EXECUTIVE ENGINEER
Bruhat Bengaluru Mahanagara Palike
Dasarahalli Division Bangalore-57

Technically Sanctioned for Rs. 99.99 lakhs/-
Rs. In words Rupees Ninety nine lakhs Ninety Nine thousand three Hundred and Fourty nine only/-
Job Code No. 012-22-000011
Registered as CE No. 37/22-23 Subject to conditions contained in Enclosed Memo No. CE/DZ/TS/37/2022-23 Dt. 17/9/2022

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